

APPENDIX K—DECISION ACCURACY AND CONSISTENCY RESULTS

Table K-1a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Math, Grade 3

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.105	0.020	0.000	0.000	0.126
PP	0.022	0.152	0.041	0.000	0.215
P	0.000	0.033	0.390	0.047	0.470
PWD	0.000	0.000	0.021	0.169	0.190
Total	0.127	0.206	0.451	0.216	1.000

Overall Accuracy (sum of diagonal) = 0.816

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-1b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Math, Grade 3

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.097	0.029	0.001	0.000	0.127
PP	0.029	0.127	0.051	0.000	0.206
P	0.001	0.051	0.353	0.047	0.451
PWD	0.000	0.000	0.047	0.169	0.216
Total	0.127	0.206	0.451	0.216	1.000

Overall Consistency (sum of diagonal) = 0.746

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-1c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Math, Grade 3

Accuracy	0.816
Consistency	0.746
Kappa (k)	0.633

Table K-1d. 2007-08 NECAP Indices Conditional On Achievement Level: Math, Grade 3

Achievement Level	Accuracy	Consistency
SBP	0.838	0.766
PP	0.709	0.614
P	0.830	0.783
PWD	0.889	0.784

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-1e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Math, Grade 3

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.958	0.020	0.022	0.941
PP:P	0.926	0.041	0.033	0.897
P:PWD	0.932	0.047	0.021	0.907

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction
 False Positive = proportion of students with observed score above cutpoint and true score below cutpoint
 False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-2a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Math, Grade 4

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.121	0.023	0.000	0.000	0.144
PP	0.024	0.181	0.044	0.000	0.249
P	0.000	0.034	0.381	0.041	0.457
PWD	0.000	0.000	0.018	0.133	0.151
Total	0.145	0.238	0.442	0.174	1.000

Overall Accuracy (sum of diagonal) = 0.816

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-2b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Math, Grade 4

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.112	0.032	0.001	0.000	0.145
PP	0.032	0.153	0.054	0.000	0.238
P	0.001	0.054	0.348	0.041	0.442
PWD	0.000	0.000	0.041	0.134	0.174
Total	0.145	0.238	0.442	0.174	1.000

Overall Consistency (sum of diagonal) = 0.746

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-2c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Math, Grade 4

Accuracy	0.816
Consistency	0.746
Kappa (k)	0.635

Table K-2d. 2007-08 NECAP Indices Conditional On Achievement Level: Math, Grade 4

Achievement Level	Accuracy	Consistency
SBP	0.841	0.773
PP	0.729	0.640
P	0.835	0.785
PWD	0.883	0.767

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-2e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Math, Grade 4

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.953	0.023	0.024	0.934
PP:P	0.922	0.044	0.034	0.892
P:PWD	0.941	0.041	0.018	0.919

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

False Positive = proportion of students with observed score above cutpoint and true score below cutpoint

False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-3a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Math, Grade 5

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.151	0.031	0.002	0.000	0.184
PP	0.031	0.095	0.045	0.000	0.171
P	0.002	0.037	0.404	0.043	0.485
PWD	0.000	0.000	0.022	0.139	0.160
Total	0.183	0.163	0.472	0.182	1.000

Overall Accuracy (sum of diagonal) = 0.789

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-3b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Math, Grade 5

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.138	0.039	0.007	0.000	0.183
PP	0.039	0.073	0.052	0.000	0.163
P	0.007	0.052	0.368	0.045	0.472
PWD	0.000	0.000	0.045	0.137	0.182
Total	0.183	0.163	0.472	0.182	1.000

Overall Consistency (sum of diagonal) = 0.715

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-3c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Math, Grade 5

Accuracy	0.789
Consistency	0.715
Kappa (k)	0.583

Table K-3d. 2007-08 NECAP Indices Conditional On Achievement Level: Math, Grade 5

Achievement Level	Accuracy	Consistency
SBP	0.821	0.750
PP	0.557	0.446
P	0.832	0.780
PWD	0.866	0.753

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-3e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Math, Grade 5

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.9346	0.0329	0.0325	0.9084
PP:P	0.9155	0.0462	0.0382	0.8823
P:PWD	0.9353	0.0432	0.0215	0.9101

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction
 False Positive = proportion of students with observed score above cutpoint and true score below cutpoint
 False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-4a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Math, Grade 6

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.154	0.028	0.001	0.000	0.182
PP	0.028	0.112	0.041	0.000	0.181
P	0.001	0.035	0.386	0.039	0.460
PWD	0.000	0.000	0.020	0.157	0.177
Total	0.182	0.174	0.448	0.196	1.000

Overall Accuracy (sum of diagonal) = 0.809

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-4b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Math, Grade 6

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.142	0.036	0.004	0.000	0.182
PP	0.036	0.089	0.050	0.000	0.174
P	0.004	0.050	0.354	0.041	0.448
PWD	0.000	0.000	0.041	0.155	0.196
Total	0.182	0.174	0.448	0.196	1.000

Overall Consistency (sum of diagonal) = 0.740

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-4c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Math, Grade 6

Accuracy	0.809
Consistency	0.740
Kappa (k)	0.627

Table K-4d. 2007-08 NECAP Indices Conditional On Achievement Level: Math, Grade 6

Achievement Level	Accuracy	Consistency
SBP	0.846	0.784
PP	0.619	0.509
P	0.840	0.789
PWD	0.887	0.791

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-4e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Math, Grade 6

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.944	0.028	0.028	0.922
PP:P	0.923	0.042	0.035	0.893
P:PWD	0.941	0.039	0.020	0.918

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

False Positive = proportion of students with observed score above cutpoint and true score below cutpoint

False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-5a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Math, Grade 7

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.162	0.034	0.000	0.000	0.197
PP	0.032	0.147	0.047	0.000	0.226
P	0.000	0.036	0.342	0.039	0.416
PWD	0.000	0.000	0.020	0.141	0.161
Total	0.195	0.218	0.409	0.179	1.000

Overall Accuracy (sum of diagonal) = 0.792

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-5b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Math, Grade 7

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.148	0.044	0.003	0.000	0.195
PP	0.044	0.119	0.055	0.000	0.218
P	0.003	0.055	0.310	0.041	0.409
PWD	0.000	0.000	0.041	0.139	0.179
Total	0.195	0.218	0.409	0.179	1.000

Overall Consistency (sum of diagonal) = 0.715

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-5c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Math, Grade 7

Accuracy	0.792
Consistency	0.715
Kappa (k)	0.602

Table K-5d. 2007-08 NECAP Indices Conditional On Achievement Level: Math, Grade 7

Achievement Level	Accuracy	Consistency
SBP	0.824	0.759
PP	0.652	0.546
P	0.820	0.758
PWD	0.876	0.773

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-5e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Math, Grade 7

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.933	0.035	0.032	0.906
PP:P	0.917	0.047	0.036	0.884
P:PWD	0.942	0.039	0.020	0.919

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

False Positive = proportion of students with observed score above cutpoint and true score below cutpoint

False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-6a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Math, Grade 8

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.173	0.039	0.000	0.000	0.212
PP	0.033	0.157	0.048	0.000	0.238
P	0.000	0.034	0.345	0.035	0.415
PWD	0.000	0.000	0.017	0.119	0.135
Total	0.206	0.231	0.409	0.154	1.000

Overall Accuracy (sum of diagonal) = 0.794

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-6b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Math, Grade 8

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.155	0.048	0.003	0.000	0.206
PP	0.048	0.128	0.055	0.000	0.231
P	0.003	0.055	0.316	0.036	0.409
PWD	0.000	0.000	0.036	0.118	0.154
Total	0.206	0.231	0.409	0.154	1.000

Overall Consistency (sum of diagonal) = 0.717

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-6c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Math, Grade 8

Accuracy	0.794
Consistency	0.717
Kappa (k)	0.603

Table K-6d. 2007-08 NECAP Indices Conditional On Achievement Level: Math, Grade 8

Achievement Level	Accuracy	Consistency
SBP	0.814	0.753
PP	0.660	0.554
P	0.832	0.772
PWD	0.878	0.767

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-6e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Math, Grade 8

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.927	0.040	0.034	0.898
PP:P	0.917	0.048	0.035	0.885
P:PWD	0.949	0.035	0.017	0.928

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

False Positive = proportion of students with observed score above cutpoint and true score below cutpoint

False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-7a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Math, Grade 11

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.372	0.050	0.000	0.000	0.422
PP	0.040	0.224	0.047	0.000	0.310
P	0.000	0.028	0.229	0.005	0.262
PWD	0.000	0.000	0.001	0.005	0.006
Total	0.412	0.302	0.276	0.009	1.000

Overall Accuracy (sum of diagonal) = 0.794

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-7b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Math, Grade 11

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.350	0.061	0.001	0.000	0.412
PP	0.061	0.190	0.051	0.000	0.302
P	0.001	0.051	0.220	0.004	0.276
PWD	0.000	0.000	0.004	0.005	0.009
Total	0.412	0.302	0.276	0.009	1.000

Overall Consistency (sum of diagonal) = 0.717

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-7c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Math, Grade 11

Accuracy	0.830
Consistency	0.765
Kappa (k)	0.645

Table K-7d. 2007-08 NECAP Indices Conditional On Achievement Level: Math, Grade 11

Achievement Level	Accuracy	Consistency
SBP	0.882	0.849
PP	0.722	0.629
P	0.874	0.796
PWD	0.807	0.539

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-7e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Math, Grade 11

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.910	0.050	0.040	0.875
PP:P	0.925	0.047	0.028	0.896
P:PWD	0.994	0.005	0.001	0.991

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

False Positive = proportion of students with observed score above cutpoint and true score below cutpoint

False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-8a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Reading, Grade 3

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.071	0.018	0.000	0.000	0.090
PP	0.023	0.158	0.047	0.000	0.228
P	0.000	0.040	0.427	0.054	0.521
PWD	0.000	0.000	0.021	0.140	0.161
Total	0.094	0.217	0.496	0.193	1.000

Overall Accuracy (sum of diagonal) = 0.796
 SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-8b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Reading, Grade 3

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.065	0.028	0.001	0.000	0.094
PP	0.028	0.130	0.060	0.000	0.217
P	0.001	0.060	0.383	0.052	0.496
PWD	0.000	0.000	0.052	0.142	0.193
Total	0.094	0.217	0.496	0.193	1.000

Overall Consistency (sum of diagonal) = 0.720
 SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-8c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Reading, Grade 3

Accuracy	0.796
Consistency	0.720
Kappa (k)	0.576

Table K-8d. 2007-08 NECAP Indices Conditional On Achievement Level: Reading, Grade 3

Achievement Level	Accuracy	Consistency
SBP	0.794	0.691
PP	0.694	0.597
P	0.820	0.773
PWD	0.868	0.734

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-8e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Reading, Grade 3

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.959	0.019	0.023	0.942
PP:P	0.912	0.047	0.040	0.878
P:PWD	0.925	0.054	0.021	0.897

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction
 False Positive = proportion of students with observed score above cutpoint and true score below cutpoint
 False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-9a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Reading, Grade 4

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.072	0.021	0.000	0.000	0.093
PP	0.027	0.163	0.055	0.000	0.244
P	0.000	0.045	0.384	0.063	0.493
PWD	0.000	0.000	0.024	0.146	0.170
Total	0.099	0.229	0.464	0.209	1.000

Overall Accuracy (sum of diagonal) = 0.765

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-9b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Reading, Grade 4

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.065	0.031	0.002	0.000	0.099
PP	0.031	0.130	0.067	0.000	0.229
P	0.002	0.067	0.335	0.060	0.464
PWD	0.000	0.000	0.060	0.149	0.209
Total	0.099	0.229	0.464	0.209	1.000

Overall Consistency (sum of diagonal) = 0.678

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-9c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Reading, Grade 4

Accuracy	0.765
Consistency	0.678
Kappa (k)	0.527

Table K-9d. 2007-08 NECAP Indices Conditional On Achievement Level: Reading, Grade 4

Achievement Level	Accuracy	Consistency
SBP	0.774	0.660
PP	0.667	0.568
P	0.780	0.722
PWD	0.858	0.712

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-9e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Reading, Grade 4

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.952	0.021	0.027	0.933
PP:P	0.899	0.055	0.046	0.861
P:PWD	0.913	0.063	0.024	0.880

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction
 False Positive = proportion of students with observed score above cutpoint and true score below cutpoint
 False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-10a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Reading, Grade 5

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.058	0.016	0.000	0.000	0.074
PP	0.022	0.199	0.048	0.000	0.269
P	0.000	0.043	0.379	0.050	0.472
PWD	0.000	0.000	0.025	0.161	0.185
Total	0.080	0.258	0.452	0.210	1.000

Overall Accuracy (sum of diagonal) = 0.797

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-10b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Reading, Grade 5

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.053	0.026	0.001	0.000	0.080
PP	0.026	0.169	0.063	0.000	0.258
P	0.001	0.063	0.337	0.052	0.452
PWD	0.000	0.000	0.052	0.158	0.210
Total	0.080	0.258	0.452	0.210	1.000

Overall Consistency (sum of diagonal) = 0.717

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-10c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Reading, Grade 5

Accuracy	0.797
Consistency	0.717
Kappa (k)	0.583

Table K-10d. 2007-08 NECAP Indices Conditional On Achievement Level: Reading, Grade 5

Achievement Level	Accuracy	Consistency
SBP	0.787	0.669
PP	0.740	0.654
P	0.803	0.745
PWD	0.867	0.753

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-10e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Reading, Grade 5

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.963	0.016	0.022	0.947
PP:P	0.909	0.048	0.043	0.873
P:PWD	0.926	0.050	0.025	0.896

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

False Positive = proportion of students with observed score above cutpoint and true score below cutpoint

False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-11a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Reading, Grade 6

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.068	0.018	0.000	0.000	0.086
PP	0.024	0.189	0.049	0.000	0.261
P	0.000	0.044	0.408	0.046	0.498
PWD	0.000	0.000	0.022	0.133	0.155
Total	0.092	0.250	0.479	0.180	1.000
Overall Accuracy (sum of diagonal) = 0.798					
SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction					

Table K-11b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Reading, Grade 6

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.0624	0.0284	0.0008	0	0.0915
PP	0.0284	0.1581	0.0637	0.0001	0.2502
P	0.0008	0.0637	0.3663	0.0477	0.4785
PWD	0	0.0001	0.0477	0.1319	0.1797
Total	0.0915	0.2502	0.4785	0.1797	1
Overall Consistency (sum of diagonal) = 0.719					
SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction					

Table K-11c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Reading, Grade 6

Accuracy	0.798
Consistency	0.719
Kappa (k)	0.579

Table K-11d. 2007-08 NECAP Indices Conditional On Achievement Level: Reading, Grade 6

Achievement Level	Accuracy	Consistency
SBP	0.794	0.681
PP	0.723	0.632
P	0.819	0.765
PWD	0.859	0.734

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-11e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Reading, Grade 6

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.959	0.018	0.024	0.942
PP:P	0.908	0.049	0.044	0.871
P:PWD	0.932	0.046	0.022	0.904

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

False Positive = proportion of students with observed score above cutpoint and true score below cutpoint

False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-12a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Reading, Grade 7

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.061	0.016	0.000	0.000	0.077
PP	0.020	0.163	0.043	0.000	0.226
P	0.000	0.038	0.458	0.047	0.542
PWD	0.000	0.000	0.021	0.135	0.155
Total	0.081	0.217	0.521	0.181	1.000

Overall Accuracy (sum of diagonal) = 0.816

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-12b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Reading, Grade 7

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.056	0.025	0.001	0.000	0.081
PP	0.025	0.136	0.056	0.000	0.217
P	0.001	0.056	0.418	0.047	0.521
PWD	0.000	0.000	0.047	0.135	0.181
Total	0.081	0.217	0.521	0.181	1.000

Overall Consistency (sum of diagonal) = 0.744

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-12c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Reading, Grade 7

Accuracy	0.816
Consistency	0.744
Kappa (k)	0.602

Table K-12d. 2007-08 NECAP Indices Conditional On Achievement Level: Reading, Grade 7

Achievement Level	Accuracy	Consistency
SBP	0.796	0.689
PP	0.721	0.628
P	0.844	0.802
PWD	0.868	0.743

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-12e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Reading, Grade 7

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.964	0.016	0.020	0.950
PP:P	0.919	0.043	0.038	0.887
P:PWD	0.933	0.047	0.021	0.907

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction
 False Positive = proportion of students with observed score above cutpoint and true score below cutpoint
 False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-13a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Reading, Grade 8

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.087	0.019	0.000	0.000	0.106
PP	0.022	0.216	0.047	0.000	0.284
P	0.000	0.038	0.367	0.045	0.449
PWD	0.000	0.000	0.020	0.141	0.161
Total	0.109	0.272	0.433	0.186	1.000

Overall Accuracy (sum of diagonal) = 0.809

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-13b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Reading, Grade 8

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.080	0.028	0.000	0.000	0.109
PP	0.028	0.185	0.058	0.000	0.272
P	0.000	0.058	0.330	0.045	0.433
PWD	0.000	0.000	0.045	0.141	0.186
Total	0.109	0.272	0.433	0.186	1.000

Overall Consistency (sum of diagonal) = 0.735

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-13c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Reading, Grade 8

Accuracy	0.809
Consistency	0.735
Kappa (k)	0.618

Table K-13d. 2007-08 NECAP Indices Conditional On Achievement Level: Reading, Grade 8

Achievement Level	Accuracy	Consistency
SBP	0.821	0.736
PP	0.758	0.681
P	0.815	0.761
PWD	0.875	0.757

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-13e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Reading, Grade 8

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.959	0.019	0.022	0.943
PP:P	0.916	0.047	0.038	0.882
P:PWD	0.935	0.045	0.020	0.910

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction
 False Positive = proportion of students with observed score above cutpoint and true score below cutpoint
 False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-14a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Reading, Grade 11

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.090	0.020	0.000	0.000	0.110
PP	0.023	0.205	0.045	0.000	0.274
P	0.000	0.038	0.349	0.044	0.431
PWD	0.000	0.000	0.022	0.163	0.186
Total	0.114	0.263	0.417	0.207	1.000

Overall Accuracy (sum of diagonal) = 0.808

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-14b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Reading, Grade 11

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.084	0.030	0.000	0.000	0.114
PP	0.030	0.175	0.058	0.000	0.263
P	0.000	0.058	0.312	0.046	0.417
PWD	0.000	0.000	0.046	0.161	0.207
Total	0.114	0.263	0.417	0.207	1.000

Overall Consistency (sum of diagonal) = 0.732

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-14c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Reading, Grade 11

Accuracy	0.808
Consistency	0.732
Kappa (k)	0.618

Table K-14d. 2007-08 NECAP Indices Conditional On Achievement Level: Reading, Grade 11

Achievement Level	Accuracy	Consistency
SBP	0.821	0.734
PP	0.749	0.667
P	0.810	0.750
PWD	0.879	0.777

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-14e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Reading, Grade 11

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.957	0.020	0.023	0.940
PP:P	0.917	0.045	0.038	0.883
P:PWD	0.934	0.044	0.022	0.908

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

False Positive = proportion of students with observed score above cutpoint and true score below cutpoint

False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-15a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Writing, Grade 5

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.136	0.046	0.004	0.000	0.185
PP	0.060	0.171	0.088	0.007	0.325
P	0.004	0.064	0.179	0.084	0.330
PWD	0.000	0.001	0.030	0.128	0.160
Total	0.199	0.282	0.301	0.219	1.000

Overall Accuracy (sum of diagonal) = 0.613

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-15b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Writing, Grade 5

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.120	0.062	0.016	0.001	0.199
PP	0.062	0.122	0.082	0.015	0.282
P	0.016	0.082	0.135	0.068	0.301
PWD	0.001	0.015	0.068	0.134	0.219
Total	0.199	0.282	0.301	0.219	1.000

Overall Consistency (sum of diagonal) = 0.512

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-15c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Writing, Grade 5

Accuracy	0.613
Consistency	0.512
Kappa (k)	0.342

Table K-15d. 2007-08 NECAP Indices Conditional On Achievement Level: Writing, Grade 5

Achievement Level	Accuracy	Consistency
SBP	0.733	0.605
PP	0.525	0.435
P	0.542	0.449
PWD	0.800	0.612

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-15e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Writing, Grade 5

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.887	0.049	0.063	0.843
PP:P	0.833	0.099	0.069	0.772
P:PWD	0.878	0.091	0.032	0.830

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

False Positive = proportion of students with observed score above cutpoint and true score below cutpoint

False Negative = proportion of students with observed score below cutpoint and true score above cutpoint

Table K-16a. 2007-08 NECAP Decision Accuracy -- Cross-Tabulation of True and Observed Achievement Level Proportions: Writing, Grade 8

Observed Achievement Level	True Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.118	0.044	0.001	0.000	0.163
PP	0.057	0.259	0.102	0.002	0.420
P	0.001	0.060	0.238	0.062	0.361
PWD	0.000	0.000	0.012	0.044	0.056
Total	0.175	0.363	0.354	0.107	1.000

Overall Accuracy (sum of diagonal) = 0.659
 SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-16b. 2007-08 NECAP Decision Consistency -- Cross-Tabulation of Observed Achievement Level Proportions for Two Parallel Forms: Writing, Grade 8

Form 2 Achievement Level	Form 1 Achievement Level				Total
	SBP	PP	P	PWD	
SBP	0.104	0.063	0.008	0.000	0.175
PP	0.063	0.195	0.100	0.005	0.363
P	0.008	0.100	0.199	0.048	0.354
PWD	0.000	0.005	0.048	0.054	0.107
Total	0.175	0.363	0.354	0.107	1.000

Overall Consistency (sum of diagonal) = 0.551
 SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-16c. 2007-08 NECAP Summary of Overall Accuracy and Consistency Indices: Writing, Grade 8

Accuracy	0.659
Consistency	0.551
Kappa (k)	0.359

Table K-16d. 2007-08 NECAP Indices Conditional On Achievement Level: Writing, Grade 8

Achievement Level	Accuracy	Consistency
SBP	0.724	0.593
PP	0.617	0.537
P	0.660	0.561
PWD	0.780	0.503

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction

Table K-16e. 2007-08 NECAP Accuracy and Consistency Indices at Cutpoints: Writing, Grade 8

Cutpoint	Accuracy	False Positive	False Negative	Consistency
SBP:PP	0.898	0.045	0.058	0.857
PP:P	0.834	0.105	0.061	0.774
P:PWD	0.924	0.063	0.012	0.893

SBP = Substantially Below Proficient; PP = Partially Proficient; P = Proficient; PWD = Proficient with Distinction
 False Positive = proportion of students with observed score above cutpoint and true score below cutpoint
 False Negative = proportion of students with observed score below cutpoint and true score above cutpoint